



Customizing a SharePoint GIS to provide Construction Information at LAX


2016 ESRI Conference – San Diego, CA
June 30, 2016

Don Chinery, Los Angeles World Airports



*Los Angeles
World Airports*

PLANNING & DEVELOPMENT GROUP

- 
- ✓ Introduction
 - ✓ LAX Background
 - ✓ Program Controls/GIS
 - ✓ Data Collection/Analysis
 - ✓ Application
 - ✓ Deliverables
 - ✓ Costs
 - ✓ Benefits
 - ✓ Conclusion

✓ Gateway to LA: 75 million passengers per year (2015)



LAX Airport

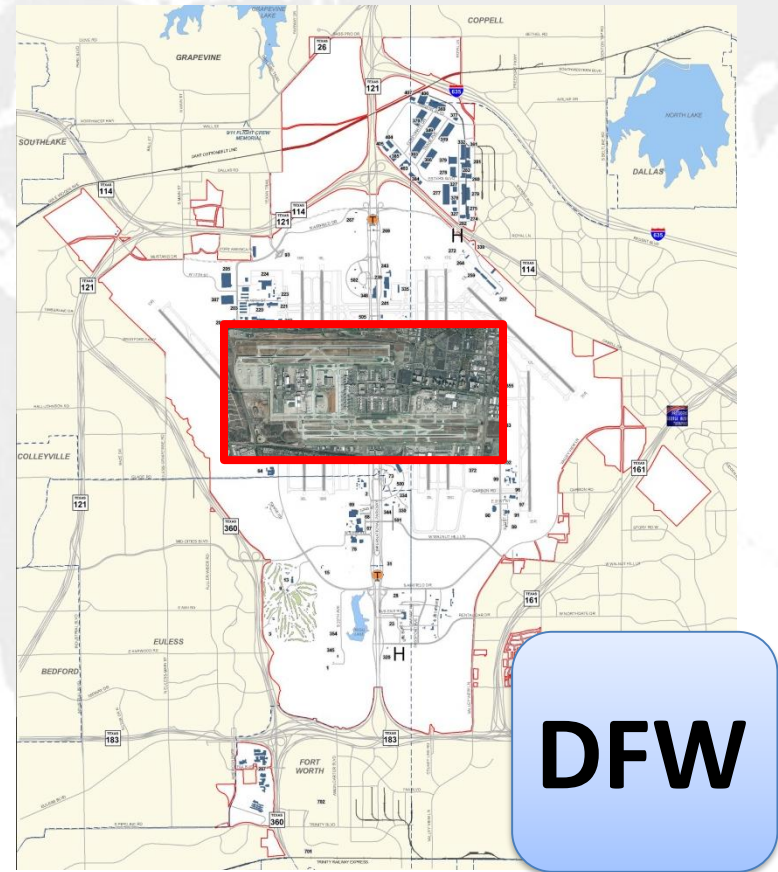
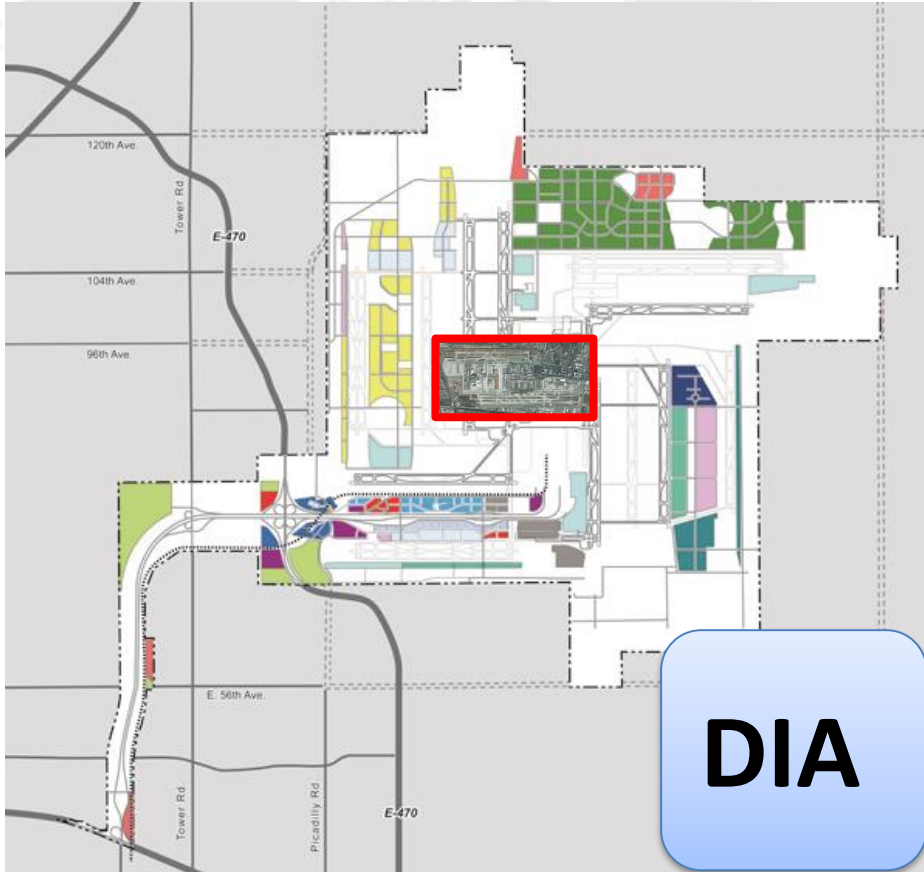


Washington - Dulles

**Orange
County**

NY/NJ - Newark

LAX Passenger Count



LAX Footprint



LAX **IS HAPPENING**™

☎ LAX Construction Hotline: 310-649-5292

🐦 @flyLAXairport 📘 LAInternationalAirport

- ✓ \$10 Billion of Construction Improvements
 - ✓ Capital, Airlines/Tenants, Maintenance Projects
 - ✓ 3 major phases – 2010 through 2024
- ✓ Nation's largest modernization airport project
- ✓ Largest public works project in Los Angeles' history



Bradley West (2013)



New Face - Central Terminal Area (2014)

T1 Renovation

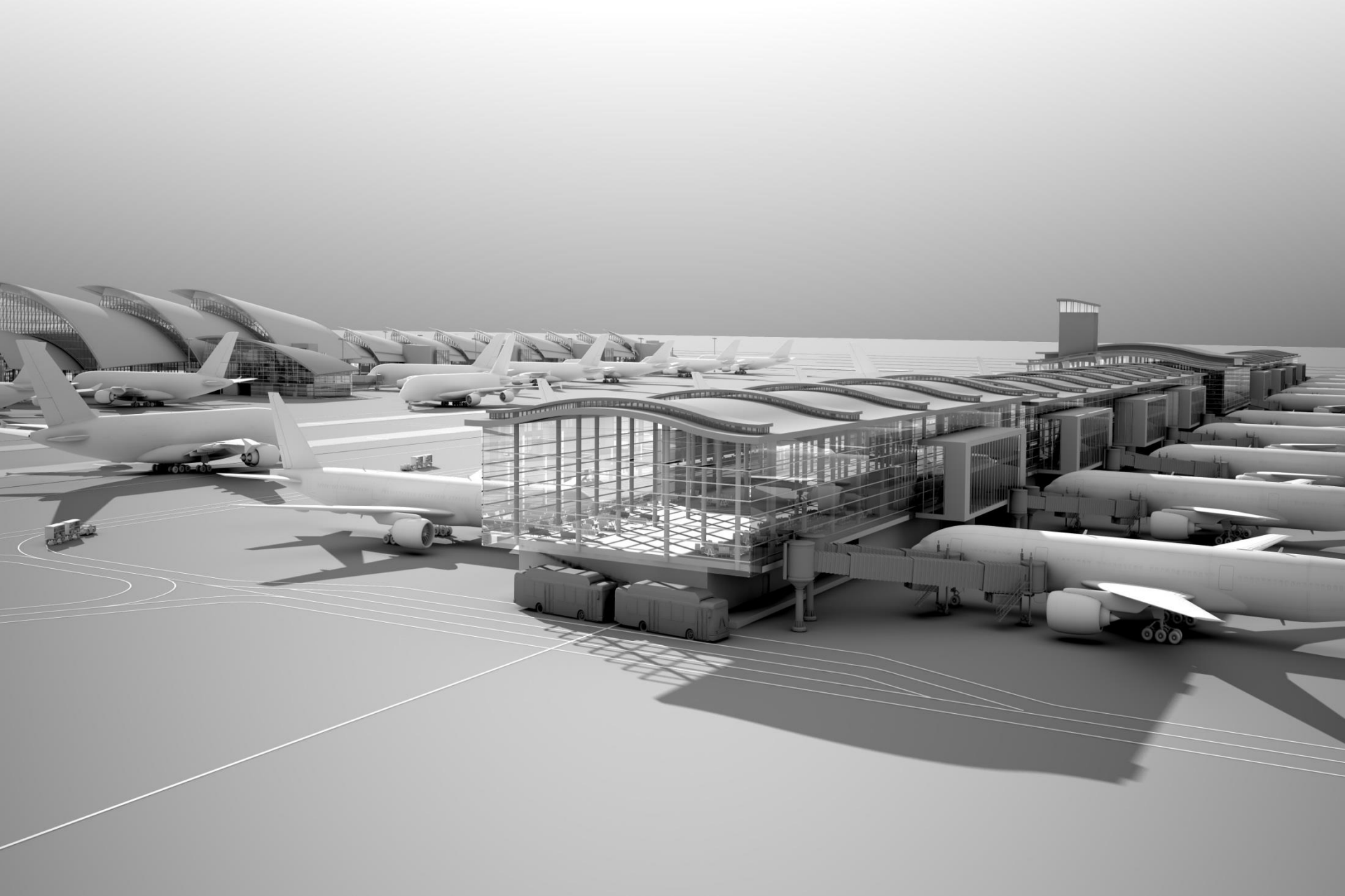


T4 Connector

T7/T8 United Renovation

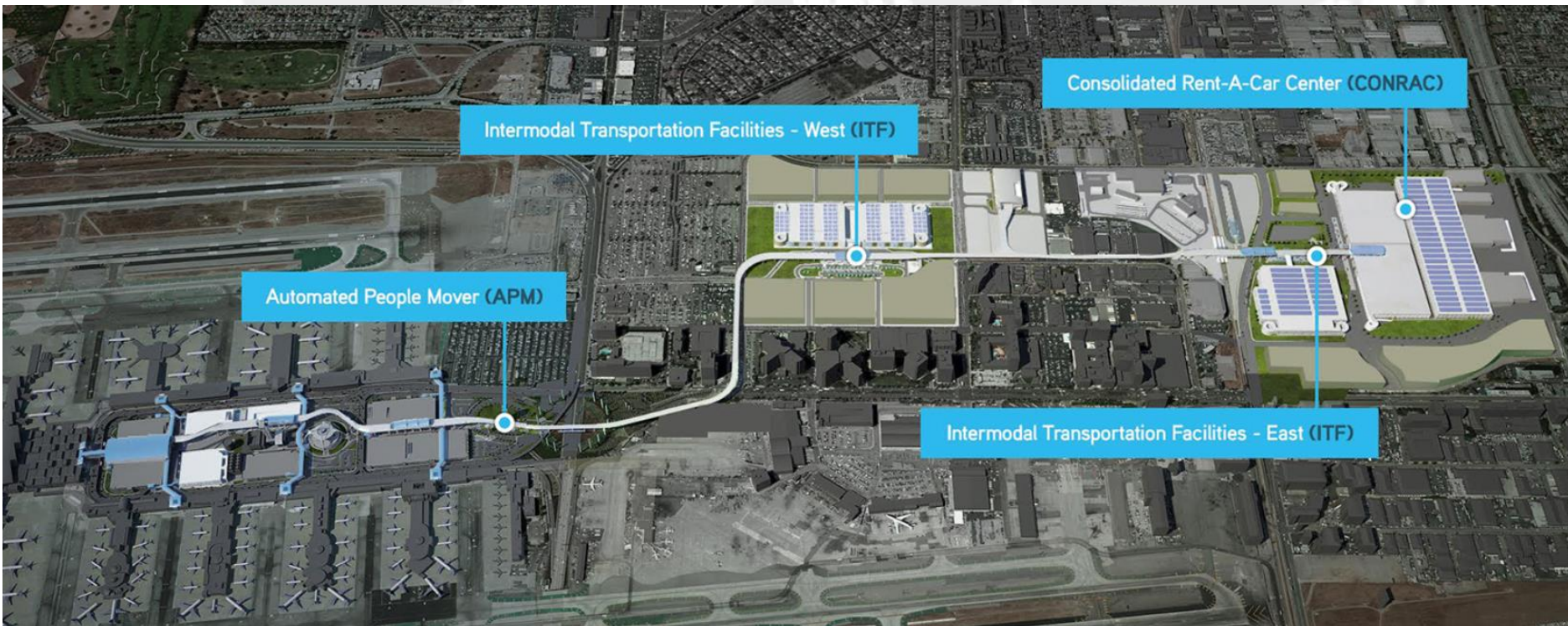


Terminal Renovations (2016 – 2018)



Midfield Satellite Concourse (2019)

- ✓ LAX is the busiest origin and destination airport in the world
- ✓ [Connectinglax.com](https://www.connectinglax.com)



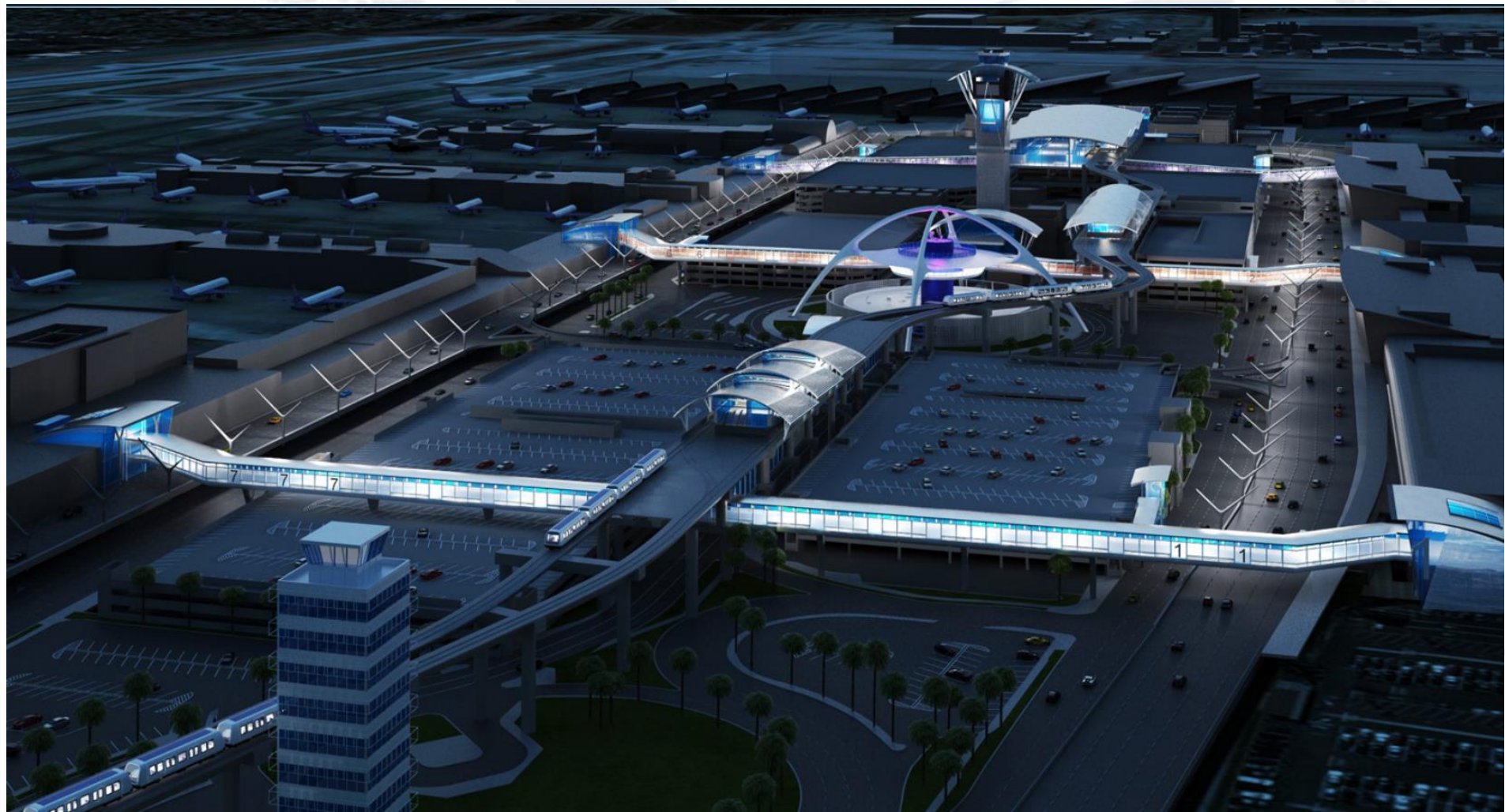
Landside Access Modernization Program (LAMP)



Consolidated Rent-A-Car Center (CONRAC)



Intermodal Transportation Facility (ITF)

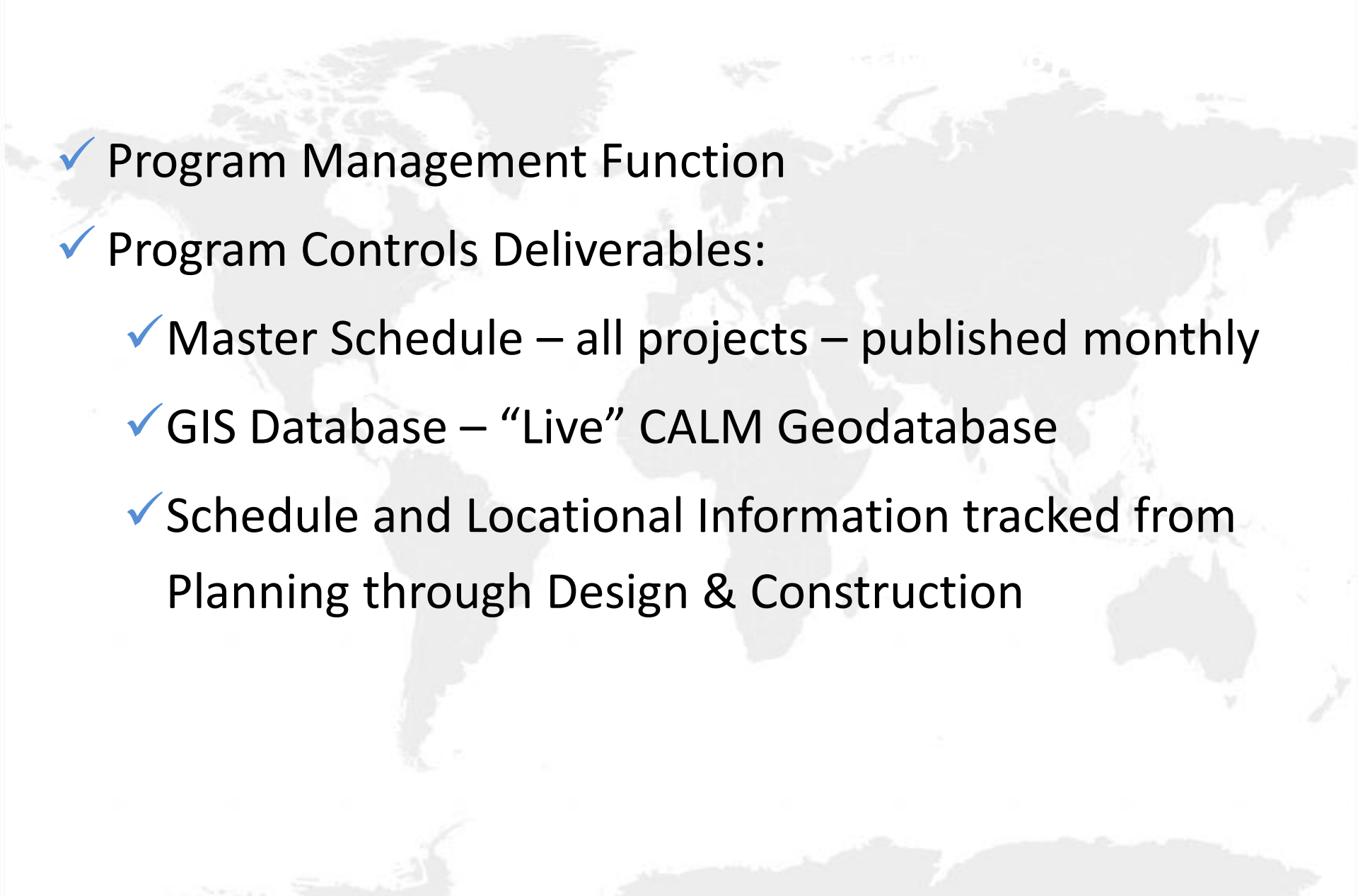


Automated People Mover System (APM)

C.A.L.M.

Coordination And Logistics Management

Minimizing construction-related impacts to passengers and tenants while maintaining a positive guest experience.

- 
- A faint, light gray world map is visible in the background of the slide, centered behind the text.
- ✓ Program Management Function
 - ✓ Program Controls Deliverables:
 - ✓ Master Schedule – all projects – published monthly
 - ✓ GIS Database – “Live” CALM Geodatabase
 - ✓ Schedule and Locational Information tracked from Planning through Design & Construction

LAX PLANNING & DEVELOPMENT GROUP LOGISTICAL COORDINATION MASTER SCHEDULE

(INTERNAL DRAFT: FOR PLANNING PURPOSES ONLY)

Activity Name	INPUT DATE	Project Type	Total Proj. Cost	Const. Cost	Planning Rep	ADG Rep	Planning Start	Design Start	Const. Start	Const. Finish	2016	2017	2018	2019							
											Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
Total	05-Jan-15		\$7,408,367,114	\$7,145,755,197			01-Sep-06	09-Dec-06	25-Jul-12	01-Jan-23											
AIRSIDE ELEMENT	05-Jan-15		\$484,082,280	\$385,340,548			01-Dec-10	01-Jul-16	13-May-13	09-Feb-18											
PROJECTS	11-Mar-16	LAWA	\$421,282,000	\$313,960,268																	
A017A - WAMA (WEST MAINTENANCE AREA)	14-Mar-16	LAWA	\$94,815,000	\$68,169,000		M.Vicije	14-Sep-12	23-Nov-13	18-Aug-14	09-Apr-16											
M308E - QANTAS HANGAR DEMOLITION	14-Mar-16	LAWA	\$24,855,000	\$20,039,000		K.Vogt			12-Jan-16	30-Oct-16											
A014A - RUNWAY 7L-26R RSA & REPAIR	14-Mar-16	LAWA	\$150,607,000	\$116,861,000	G.Nagy	M.Vicije	01-Dec-10	01-Jul-14	09-May-16	27-Nov-17											
M306 - TAXILANE T (OPEN PROJECT)	14-Mar-16	LAWA	\$81,208,000	\$57,617,000		M.Vicije	15-Dec-10	01-Jul-16	13-May-13	09-Feb-18											
M306C - TAXILANE T (PHASE 1) - COMPLETE	14-Mar-16	LAWA	\$50,240,000	\$33,698,000		M.Vicije	15-Dec-10	14-Feb-11	13-May-13	23-Oct-14											
M306D - TAXILANE T (PHASE 2)	14-Mar-16	LAWA	\$30,960,000	\$23,919,000		M.Vicije		07-Jul-16	14-Sep-17	09-Feb-18											
A023A - RUNWAY 6R-24L SAFETY AREA (RSA) IMPROVEMENT [C-LAX-12270]	14-Mar-16	LAWA	\$87,518,000	\$48,674,000	R.DeLeon	M.Vicije	12-Jan-13	04-Aug-14	17-Aug-15	10-Nov-16											
WEST RON PARKING POSITIONS, ELECTRIFICATION [C-LAX-12244] - CONCEPT REVIEW	11-Mar-16	LAWA	\$2,280,000	\$1,700,288	J.Pandya	M.Hashemi	18-Jun-14	16-Mar-15	01-Aug-16	31-May-17											
TENANT ALTERATIONS & CARGO PROJECTS	05-Jan-15		\$72,780,280	\$53,280,280			14-Sep-12	10-Feb-16	22-Oct-14	31-Dec-16											
CONTINENTAL AIRLINES - ACWX FACILITY - ADCC INVESTIGATION, PH7 [T-LAX-11471-7]	05-Jan-15	CONT	\$30,000	\$30,000		Y.Moore		15-Nov-14													
KOREAN AIR CARGO - #101 W. IMPERIAL HWY. TENANT IMPROVEMENT [T-LAX-12078] - PROG. REVIEW	11-Mar-16	KOREANAR	\$7,000,000	\$0	J.Mo	T.Wong															
UA - MAINTENANCE OPERATIONS CENTER (MOC) PRODUCT RECOVERY SYS. EXPANSION [T-LAX-12260]	14-Jan-16	LIAL	\$120,000	\$120,000		M.Henderson		24-Nov-14	30-Apr-15	29-Feb-16											
UA - WEST HANGAR GENERATOR SHED MAINTENANCE [T-LAX-12447] - CONCEPT REVIEW	14-Jan-16	LIAL	\$0	\$0		M.Henderson															
MENZIES AVIATION - IOC MA NEW BREAKROOM [T-LAX-12488]	11-Mar-16	MENZIES	\$85,000	\$85,000	R.DeLeon	T.Wong		03-Aug-15	01-Oct-15	30-Apr-16											
ATLANTIC AVIATION - HANGAR SIGN INS TALLATION [T-LAX-12643] - NTP ISSUED	13-Jan-16	ATLANTIC	\$31,000	\$31,000		M.Brown															
AA - H3 HANGAR EMPLOYEE RELOCATION [T-LAX-12318]	14-Jan-16	AMERICAN	\$0	\$0	M.Hafiq	M.Henderson			21-Sep-15	01-Mar-16											
AMERICAN AIRLINES - GSE, USAW, OSF, & SB - SIGNAGE [T-LAX-12491] - NTP REVIEW	11-Mar-16	AMERICAN	\$80,280	\$80,280		Y.Moore		02-Jul-15													
AMERICAN AIRLINES - H3 HANGAR EMPLOYEE RENOVATION - ENV. STORAGE [T-LAX-12482] - CONCEPT LETTER	14-Jan-16	AMERICAN	\$0	\$0		M.Henderson															
AA - SUPER BAY HANGAR CIRCUIT UPGRADE [T-LAX-12633] - NTP REVIEW	14-Jan-16	AMERICAN	\$0	\$0		M.Henderson															
NIPPON CARGO AIRLINES - WAREHOUSE SIGNAGE [T-LAX-12638] - ON HOLD	11-Mar-16	NIPPON CARGO	\$0	\$0		Y.Moore															
LBO SKY CHEFS - INSTALLATION OF COOLER BOX [T-LAX-12637] - PROGRESS REVIEW	11-Mar-16	SKYCHEFS	\$120,000	\$120,000	J.Chavez	T.Wong															
FEDEX - 6827 W. IMPERIAL HWY. - GSE STAGING AREA PAVING [T-LAX-12229]	28-Jan-16	FEDEX	\$1,700,000	\$1,700,000	M.Hafiq	M.Henderson		04-Dec-14	10-Feb-16	10-May-16											
FEDEX - LAXR CARGO - SIGN REPLACEMENT [T-LAX-12622]	11-Feb-16	FEDEX	\$95,000	\$95,000		Y.Moore															
FEDEX - GATE 4 B777 MODIFICATION [T-LAX-12667] - DESIGN REVIEW	11-Mar-16	FEDEX	\$960,000	\$960,000		Y.Moore		05-Feb-16													
GATE GOURMET MECHANICAL UNIT REPLACEMENT [T-LAX-12673] - DESIGN REVIEW	07-Mar-16	GATEGOURMET	\$255,000	\$255,000		T.Wong		10-Feb-16													
FEDEX - RECONFIG THE JAL 1 & 2 GATES WITH STRIPING [T-LAX-12678] - DESIGN REVIEW	07-Mar-16	FEDEX	\$25,000	\$25,000		Y.Moore															
QANTAS NEW HANGAR [LAX-12018]	14-Jan-16	QANTAS	\$50,000,000	\$37,500,000		M.Henderson	14-Sep-12	23-Nov-13	31-Aug-15	14-Jul-16											
QANTAS NEW HANGAR ENABLING (CIVIL PROJECTS)[T-LAX-12018-2]	14-Jan-16	QANTAS	\$10,000,000	\$10,000,000		M.Henderson		22-May-14	22-Oct-14	14-Jul-16											
STANDARDAERO - AT&T EQUIPMENT UPGRADE [T-LAX-11963] - LADBS PERMIT PENDING	11-Mar-16	ATT	\$25,000	\$25,000	M.Hafiq	T.Wong		23-Nov-13													
SOUTHWEST AIRLINES - GATE 12B FEEDS TRIAN RAMP [T-LAX-12638]	11-Mar-16	SOUTHWEST	\$250,000	\$250,000	J.Baker	J.Plunkett			09-Mar-16	15-Apr-16											
EXXON MOBIL OIL CORP - LAX 8" PIPELINE [T-LAX-12671] - CONCEPT REVIEW	07-Mar-16	MOBIL	\$2,000,000	\$2,000,000		M.Peterson	15-Dec-10	15-Jan-16	01-Sep-16	31-Dec-16											
UTILITIES AND INFRASTRUCTURE	08-Feb-16		\$216,475,955	\$189,201,280			15-Dec-10	01-Aug-16	10-Sep-14	23-Apr-19											
PROJECTS	06-Feb-16	LAWA	\$198,369,389	\$158,133,714			15-Dec-10	01-Aug-16	10-Sep-14	14-Feb-15											
U020A - ELECTRICAL, COMMUNICATIONS, & WATER UTILITY EXT - 6TH FEEDER [C-LAX-11686]	10-Mar-16	LAWA	\$23,291,000	\$18,624,000		V.Thompson		16-Apr-13	20-Oct-14	15-Apr-16											
SUMMARY	10-Mar-16	LAWA	\$23,291,000	\$18,624,000		V.Thompson		16-Apr-13	20-Oct-14	15-Apr-16											
CONSTRUCTION PHASES	10-Mar-16	LAWA	\$0	\$0		V.Thompson		16-Apr-13	27-Oct-14	15-Apr-16											
PHASE 1A (Along Center Way - East of East Way to Grass Area)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		27-Oct-14	24-Dec-14												
PHASE 1B (Along Center Way - East of East Way to Grass Area)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		04-Nov-14	14-Apr-15												
PHASE 1C (Crossing Center Way - From Grass Area to Inside Admin Bldg.)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		26-Nov-14	17-Jul-15												
PHASE 1D & 1E (Admin Bldg East to Jacking Pit)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		23-Jan-15	17-Jul-15												
PHASE 1A (Circle Way & Little Century Blvd. - Pits & Jacking)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		27-Mar-15	17-Jul-15												
PHASE 2B (Crossing Little Century Blvd.)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		04-May-15	17-Jul-15												
PHASE 2C (Inside Park One Parking Lot)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		26-Jan-15	17-Mar-15												
PHASE 2D (Little Century Blvd. - Park n' Fly and LADWP Tie-in)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		27-Mar-15	11-Sep-15												
PHASE 3 (Theme Bldg. to East Way)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		26-Mar-15	17-Aug-15												
PHASE 4A THRU 4E (Along East Way to Terminal 1 - 42" FW & 8" DW)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		04-Jun-15	17-Jul-15												
PHASE 5 (Hydronic Vault/Piping #3 at T3/TBT)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		11-Dec-14	11-Sep-15												
JACK & BORE (T4 Connector Bldg.)	10-Mar-16	LAWA	\$0	\$0		V.Thompson		30-Nov-15	15-Apr-16												
L024A - CONSTRUCTION ACCESS POST MODIFICATIONS (POST 21, 23 AND GATE 238B)	14-Mar-16	LAWA	\$4,581,000	\$3,518,000		M.Ghuman	15-Dec-10	01-Nov-14	22-Jul-15	31-Jul-16											
SUMMARY	14-Mar-16	LAWA	\$4,581,000	\$3,518,000		M.Ghuman	15-Dec-10	01-Nov-14	22-Jul-15	15-Mar-16											
POST 21 - Complete	14-Mar-16	LAWA	\$0	\$0		M.Ghuman		22-Jul-15	14-Aug-15												
GATE 238B	14-Mar-16	LAWA	\$0	\$0		M.Ghuman		18-Jan-16	15-Apr-16												
POST 23	14-Mar-16	LAWA	\$0	\$0		M.Ghuman		01-Apr-16	31-Jul-16												
L018A - ADA ACCESSIBILITY IMPROVEMENTS - PHASE 2 [C-LAX-11720]	11-Mar-16	LAWA	\$6,769,000	\$5,504,000	C.Lew	J.Fronde	17-Oct-12	28-Feb-14	11-Nov-14	16-May-17											
T001A PHASE 4 - PARKING GARAGE ELEVATOR UPGRADES [C-LAX-11617]	11-Feb-16	LAWA	\$40,000,000	\$34,265,714		T.Soung			03-Nov-14	23-Dec-16											
PARKING STRUCTURE 1	10-Mar-16	LAWA	\$5,714,286	\$5,714,286		T.Soung			05-Jan-16	07-Oct-16											
ELEVATOR 1 & 2	10-Mar-16	LAWA	\$2,857,143	\$2,857,143		T.Soung			08-Jan-16	01-Jul-16											
ELEVATOR 3 & 4	10-Mar-16	LAWA	\$2,857,143	\$2,857,143		T.Soung			02-Jul-16	07-Oct-16											
PARKING STRUCTURE 2-A (201) - DELETED SCOPE	10-Mar-16	LAWA	\$2,857,143	\$0		T.Soung															

SCHEDULE DATA DATE: 15-Mar-16

RUN DATE: 16-Mar-16 17:27

Page 1 of 10

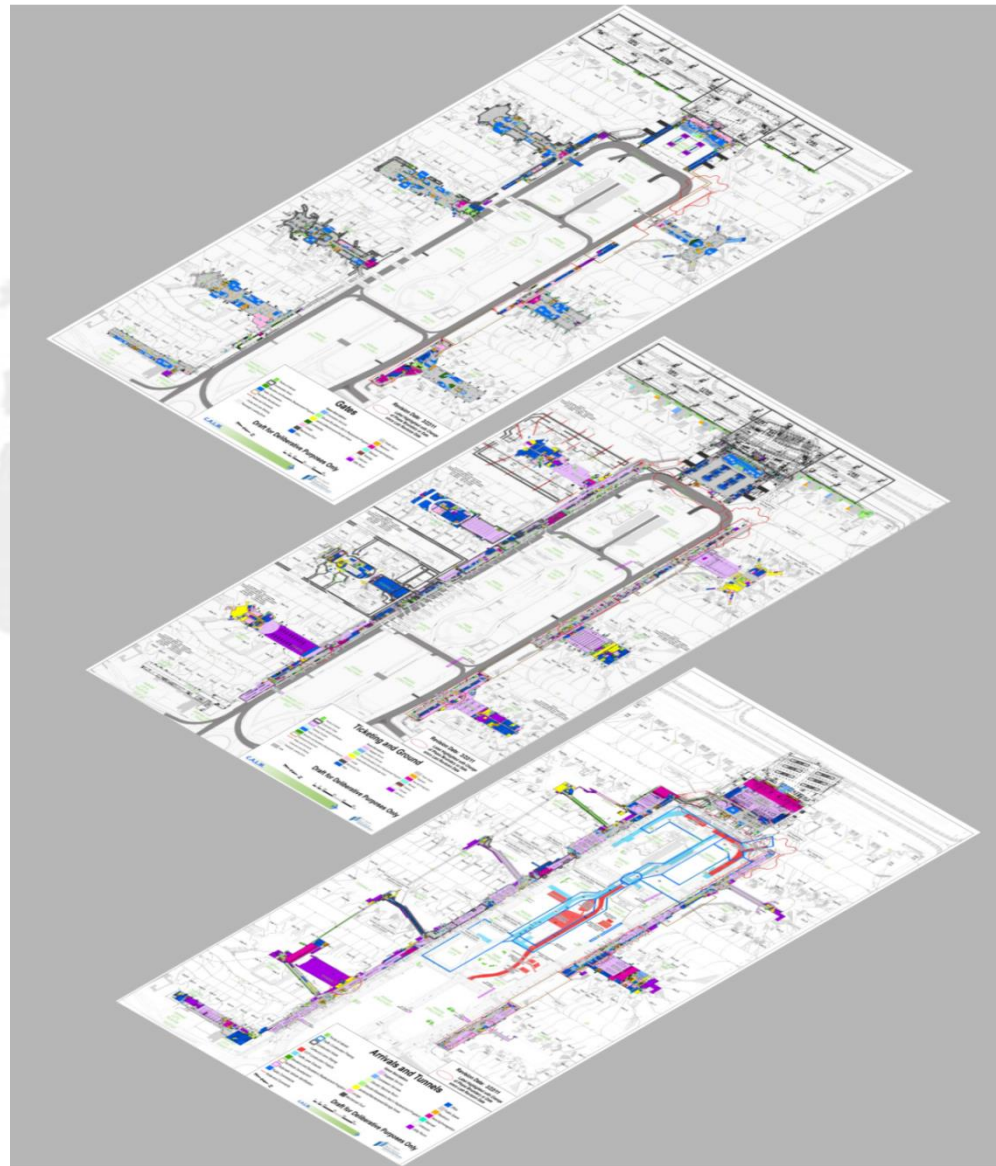
▭ Planning (CPPE)
 ▭ Construction (ADG)
 ◆ Construction Start

▭ Detailed Design (ADG)
 ◆ Construction NTP

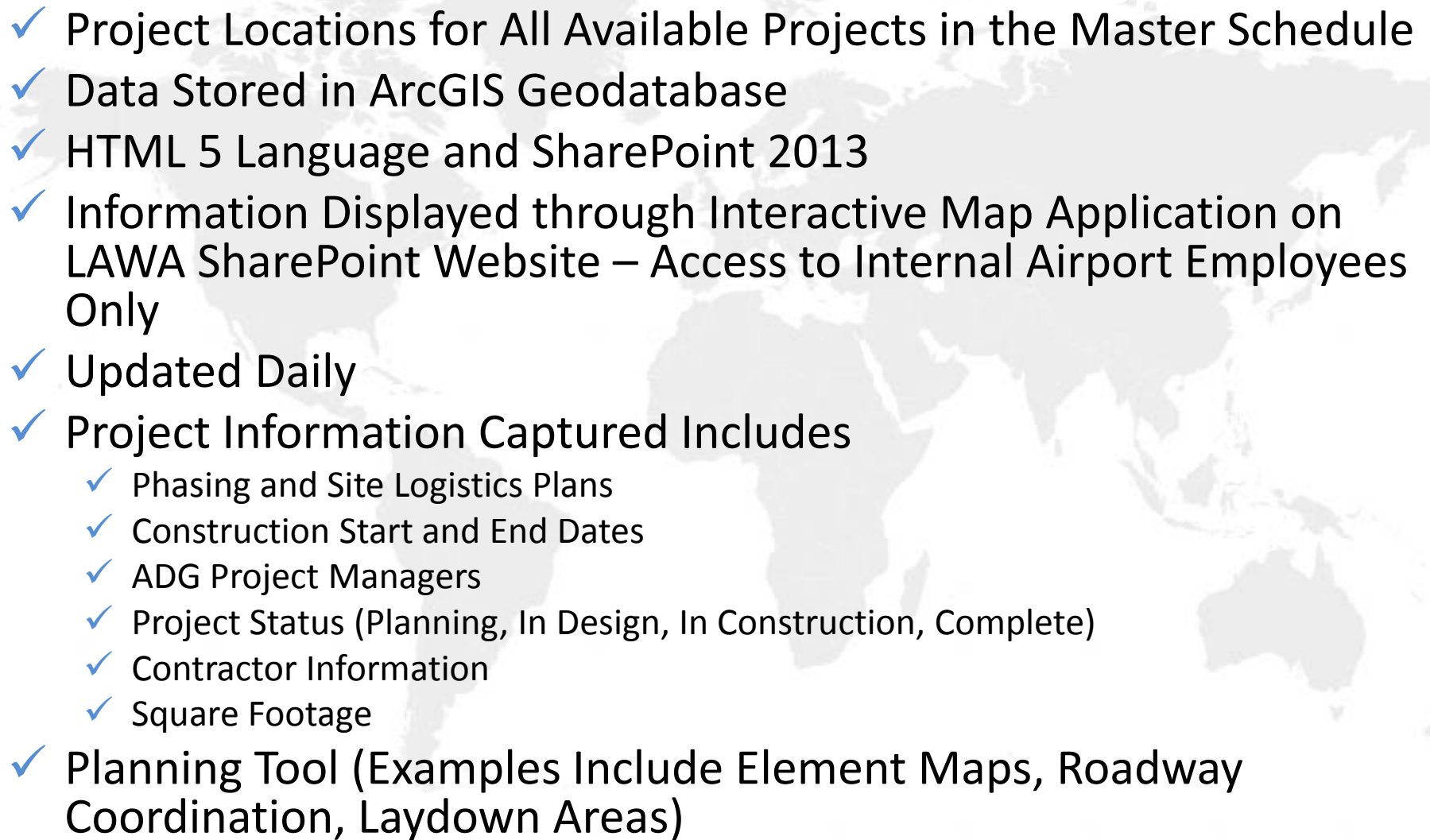
FOR DELIBERATIVE PURPOSES

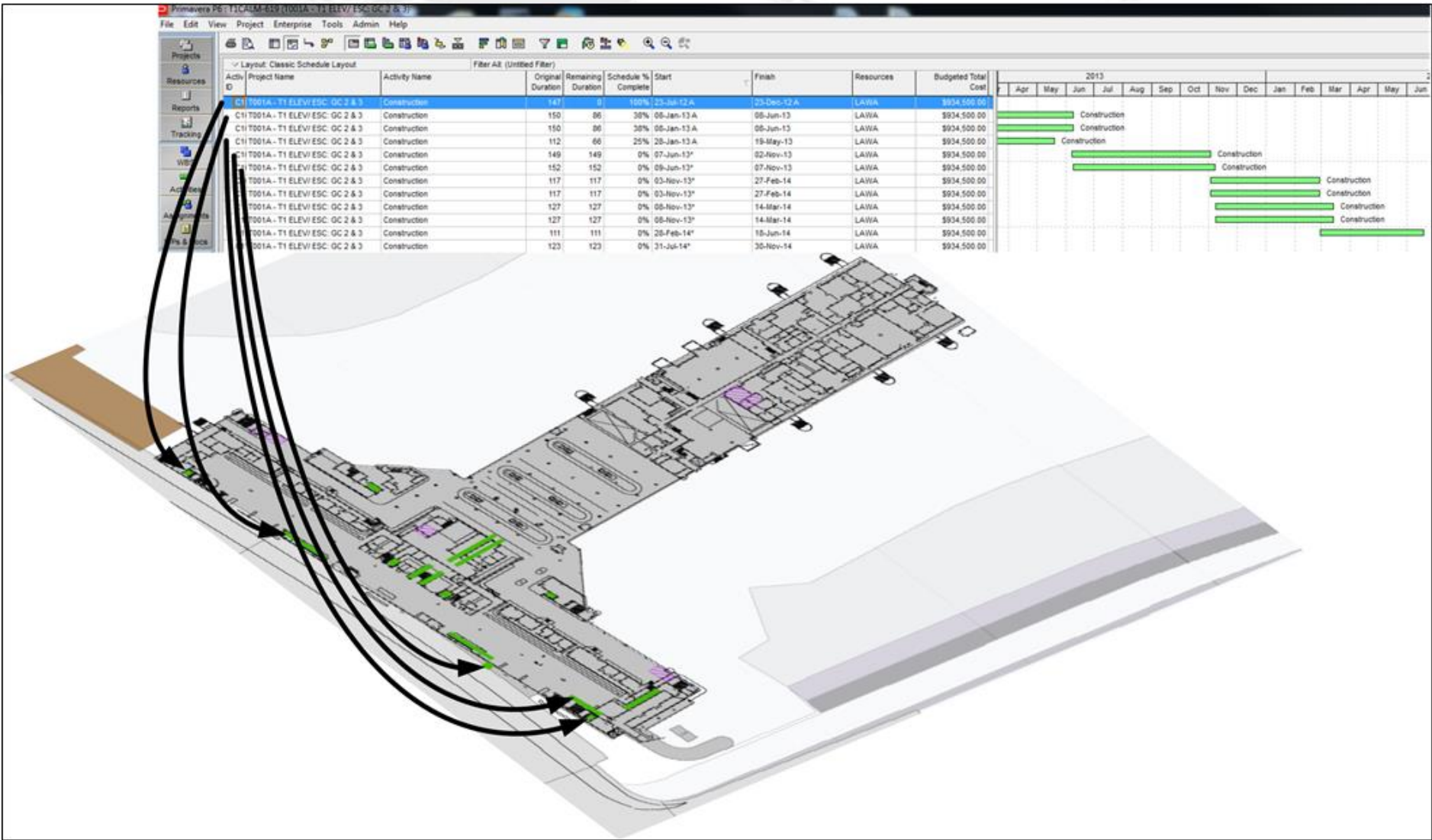
Master Coordination Schedule

- ✓ ArcGIS Geodatabase
- ✓ Identify Locations for All Projects
- ✓ Interactive Map Application



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- A faint, light gray world map is visible in the background of the slide, centered behind the text.
- ✓ Live Data
 - ✓ Efficient Packaging
 - ✓ Captures Active and Future Work Areas
 - ✓ Reports Scheduling
 - ✓ Reveals Time and Space Conflict
 - ✓ Stores Project Details
 - ✓ Provides Mapping for Logistical Coordination

- 
- A faint, light gray world map is visible in the background of the slide, centered behind the text.
- ✓ Project Locations for All Available Projects in the Master Schedule
 - ✓ Data Stored in ArcGIS Geodatabase
 - ✓ HTML 5 Language and SharePoint 2013
 - ✓ Information Displayed through Interactive Map Application on LAWA SharePoint Website – Access to Internal Airport Employees Only
 - ✓ Updated Daily
 - ✓ Project Information Captured Includes
 - ✓ Phasing and Site Logistics Plans
 - ✓ Construction Start and End Dates
 - ✓ ADG Project Managers
 - ✓ Project Status (Planning, In Design, In Construction, Complete)
 - ✓ Contractor Information
 - ✓ Square Footage
 - ✓ Planning Tool (Examples Include Element Maps, Roadway Coordination, Laydown Areas)



Systems Integration (P6 to ArcGIS)



- Home
- Nightly Report
- Construction Bulletin
- Barricade Log
- Terminal Lookaheads
- Security Maps
- CALMShare GIS Map

Welcome to LAWA ADG CALM SharePoint

The CALM (Coordination and Logistics Management) Team's mission statement is *to minimize construction-related impacts to our customers by utilizing CALM as a central point of communication and collaboration.*

This SharePoint site will enable LAWA staff to access all CALM deliverables. You will have the ability to customize Construction Projects by plotting selected points of interest using our interactive map. Also, you will have the ability to customize your selections based upon a specific terminal or specific project areas and filter construction projects based upon a specified time frame. You may also download all CALM deliverables in pdf format including Maps (CTA, Airside/Landside, Elevator/Escalators and Traffic Impacts), Master Schedules, and Construction Bulletins.

CALM Deliverables

+ new link or edit this list

File	Notes
Master Schedule	CALM Master Schedule
Concessions Schedule	Current Concessions Schedule
CALM Histogram	Histogram showing current and future construction activities.
CALM Dashboard	Quarterly Lookahead of Project Counts and Costs
Roadway Coordination (weekly)	Potential traffic impacts throughout the CTA for the coming week.
Airside	Map showing construction activities for the Airside Element
Landside	Map showing construction activities for the Landside Element
Logistics/Laydown	Map showing campus-wide Laydown and Logistics information
Arrivals and Tunnels	Map showing construction activities in the Terminal Element on the Arrivals level
Ticketing and Apron	Map showing construction activities in the Terminal Element on the Ticketing/Departures/Apron level
Gates	Map showing construction activities in the Terminal Element on the Gates/Concourse level
Elevators/Escalators	Map showing installation and maintenance of all elevators and escalators
FMG Coordination	Map showing FMG/Maintenance and Airside construction activities



Nightly Report

Most recent **Nightly Reports:**

+ new document or drag files here

- Name
- Night report 2015-11-4 #
- Night Report 2015-11-3 #
- Night Report 2015-11-2

[Nightly Report Archive](#)

Construction Bulletin

Most recent **Weekly Construction Bulletins:**

+ new document or drag files here

- Name

Display selections Legends

Area:

- Show All Projects
 - Airside
 - Tenant
 - FMG
 - LAWA CIP
 - Utilities and Infrastructure
 - LAWA CIP
 - Tenant
 - FMG
 - Traffic Lane Closures
 - Terminals
 - LAWA CIP
 - Tenant
 - FMG
 - Concessions
 - Landside
 - LAWA CIP
 - FMG
 - Tenant
 - Logistical Data (Site logistics Plans)
 - Laydown Areas
 - Trailers
 - Parking
 - Posts/Gates
 - AOA Boundary
- Show All Project Status
 - Completed Projects
 - Projects In Construction
 - Projects In Design
 - Projects In Planning
 - Projects On Hold
 - Withdrawn Projects

Date Range:

From:

To:

Enable 'Identify map by single click': OFF





Libraries

Site Pages

Shared Documents

Lists

Calendar

Tasks

CALM2Elements

CALM2ElementCategories

CALM2Areas

CALM2Levels

CALM2ProjectStatus

Discussions

Team Discussion

Recycle Bin

All Site Content

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	1	1	LAWA CIP	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Airside_CIP/MapServer	4	Yes
	2	1	Tenant	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Airside_Tenant/MapServer	2	Yes
	3	1	FMG	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Airside_Maintenance/MapServer	3	Yes
	4	2	LAWA CIP	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Landside_CIP/MapServer	1	Yes
	5	2	Tenant	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Landside_Tenant/MapServer	2	Yes
	6	2	FMG	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Landside_Maintenance/MapServer	3	Yes
	7	2	Traffic Lane Closures	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Traffic_Lane_Closures/MapServer	4	Yes
	8	3	LAWA CIP	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Terminals_CIP/MapServer	1	Yes
	9	3	Tenant	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Terminals_Tenant/MapServer	2	Yes
	10	3	FMG	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Terminals_Maintenance/MapServer	3	Yes
	11	3	Concessions	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Terminals_Concessions/MapServer	4	Yes
	12	4	Laydown Areas	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Logistics_Laydown_Areas/MapServer	1	Yes
	13	4	Trailers	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Logistics_Trailers/MapServer	2	Yes
	14	4	Parking	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Logistics_Parking/MapServer	3	Yes
	15	4	Posts/Gates	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Logistics_Posts/MapServer	4	Yes
	16	4	AOA Boundary	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Logistics_Boundary/MapServer	5	Yes
	21	6	LAWA CIP	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Landside_CIP/MapServer	1	Yes
	22	6	FMG	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Landside_Maintenance/MapServer	2	Yes
	23	6	Tenant	http://slaxadggis001/arcgis/rest/services/CALMSHARE_V2/CALM_2_0_Landside_Tenant/MapServer	3	Yes

Display selections | Legends

Area: Terminal 2

- Show All Projects
 - Airside
 - Tenant
 - FMG
 - LAWA CIP
 - Utilities and Infrastructure
 - LAWA CIP
 - Tenant
 - FMG
 - Traffic Lane Closures
 - Terminals
 - LAWA CIP
 - Tenant
 - FMG
 - Concessions
 - Landside
 - LAWA CIP
 - FMG
 - Tenant
 - Logistical Data (Site logistics Plans)
 - Laydown Areas
 - Trailers
 - Parking
 - Posts/Gates
 - AOA Boundary
- Show All Project Status
 - Completed Projects
 - Projects In Construction
 - Projects In Design
 - Projects In Planning
 - Projects On Hold
 - Withdrawn Projects

Level:

Arrivals Baggage Claim

Date Range:

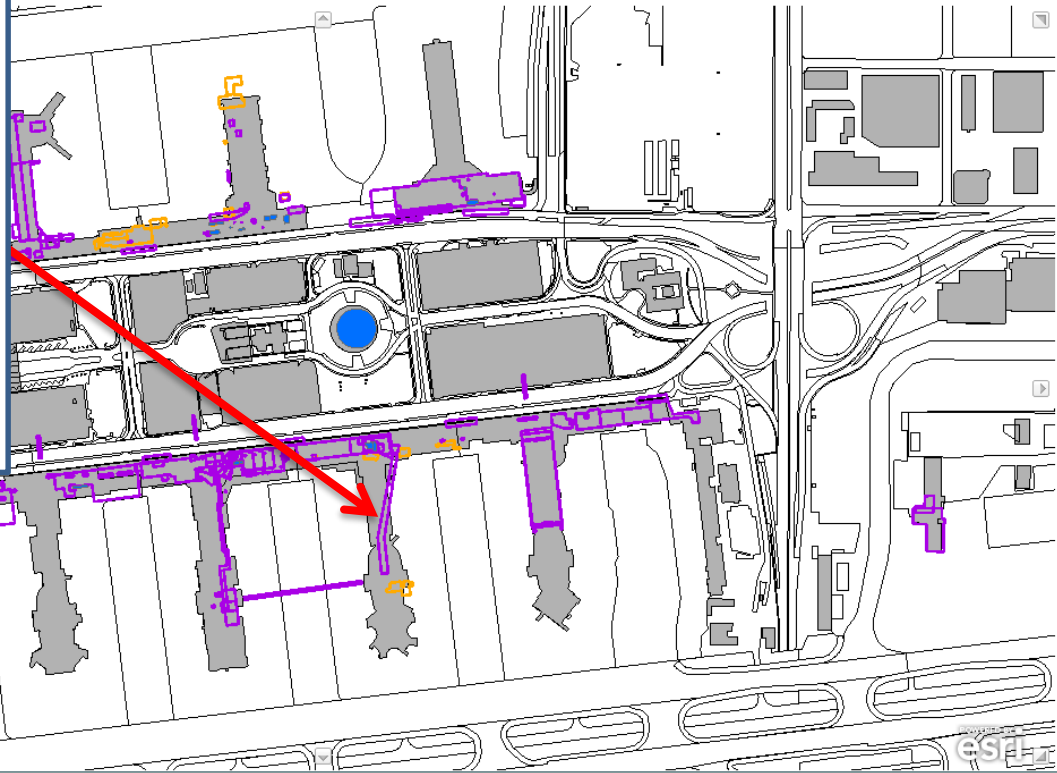
From: dd/mm/yyyy

Enable 'Identify map by single click': ←

Terminals LAWA CIP												
Action	Name	Construction Start Date	Construction End Date	Project Number	ASR Number	Status	Operator	Contractor	Contact	Facility	Level (Floor)	Element
Zoom to Map	T6 Electrical Infrastructure Upgrades, Including e GSE	2015-4-30	2017-1-6	C-LAX-11687	no asr	In Construction	LAWA	Swinerton Builders		Terminal 6	L1	Termi
Zoom to Map	Electrical Upgrades - D WP Vault 1585	2015-3-23	2017-5-9	C-LAX-11654	no asr	In Construction	LAWA	Turner Construction		Terminal 2	L1	Termi
Zoom to Map	T3 Restroom Enhancements	2015-5-19	2016-6-22	C-LAX-11780	no asr	In Design	LAWA	Unknown		Terminal 3	L1	Termi

Identify Functionality

Project Name: T6 Electrical Upgrade
Construction Start Date: 12/9/2014
Construction End Date: 3/2/2017
Project Number: C-LAX-11687
ADG Project Manager: R. Heiser
Status: In Construction
Terminal: 6
Level: Arrivals
Square Footage: 9,213 sq. ft
Contractor: Turner
Contractor Phone Number: 213.896.3401
Inspector: Sonny Cruz
Inspector Phone Number: 424-646-6014



- Tenant
- Logistical Data (Site logistics Plans)
- Laydown Areas
- Trailers
- Parking
- Posts/Gates
- AOA Boundary

Show All Project Status

Level:
 Arrivals Baggage Claim

Date Range:
 From: dd/mm/yyyy
 To: dd/mm/yyyy

Action	Name	Construction Start Date	Construction End Date	Project Number	ADG PM	ASR Number	Status	Operator	Contractor	Contact	Facility	Level (Fl
Zoom to Map	T6 Electrical Infrastructure Upgrades, Including e GSE	2014-12-9	2017-2-2	C-LAX-11687	Mandeep Ghuman	_no_asr	In Construction	LAWA	Swinerton Builders		Terminal 6	L1
Zoom to Map	Electrical Upgrades - D WP Vault 1585	2015-5-32	2017-2-17	C-LAX-11854	Rebecca Ng	_no_asr	In Construction	LAWA	Turner Construction		Terminal 2	L1
Zoom to Map	T3 Restroom Enhancements	2015-5-19	2016-6-22	C-LAX-11780	Known Needs Fix	_no_asr	In Construction	LAWA	Unknown		Terminal 3	L1

Display selections **Legends**

Area: Terminal 2

- 4 Show All Projects
 - 4 Airside
 - Tenant
 - FMG
 - LAWA CIP
 - 4 Utilities and Infrastructure
 - LAWA CIP
 - Tenant
 - FMG
 - Traffic Lane Closures
 - 4 Terminals
 - LAWA CIP
 - Tenant
 - FMG
 - Concessions
 - 4 Landside
 - LAWA CIP
 - FMG
 - Tenant
 - 4 Logistical Data (Site logistics Plans)
 - Laydown Areas
 - Trailers
 - Parking
 - Posts/Gates
 - AOA Boundary
- 4 Show All Project Status
 - Completed Projects
 - Projects In Construction
 - Projects In Design
 - Projects In Planning
 - Projects On Hold
 - Withdrawn Projects

Level:
Arrivals Baggage Claim

Date Range:
From: dd/mm/yyyy

Enable 'Identify map by single click':

Terminals LAWA CIP | Terminals Tenant | Terminals FMG | Terminals Concessions

Action	Name	Construction Start Date	Construction End Date	Project Number	ASR Number	Status	Operator	Contractor	Contact	Facility	Level (Floor)	Element
Zoom to Map	T2 Improvement Program - Phase 1 (W-1)	2014-11-25	2015-4-29	C-LAX-11600		Complete	LAWA	Turner Construction		Terminal 2	L1	Terminals

Select Work Areas

Display selections **Legends**

Show All Projects

- Airside
 - Tenant
 - FMG
 - LAWA CIP
- Utilities and Infrastructure
 - LAWA CIP
 - Tenant
 - FMG
 - Traffic Lane Closures
- Terminals
 - LAWA CIP
 - Tenant
 - FMG
 - Concessions
- Landside
 - LAWA CIP
 - FMG
 - Tenant
- Logistical Data (Site logistics Plans)
 - Laydown Areas
 - Trailers
 - Parking
 - Posts/Gates
 - AOA Boundary

Show All Project Status

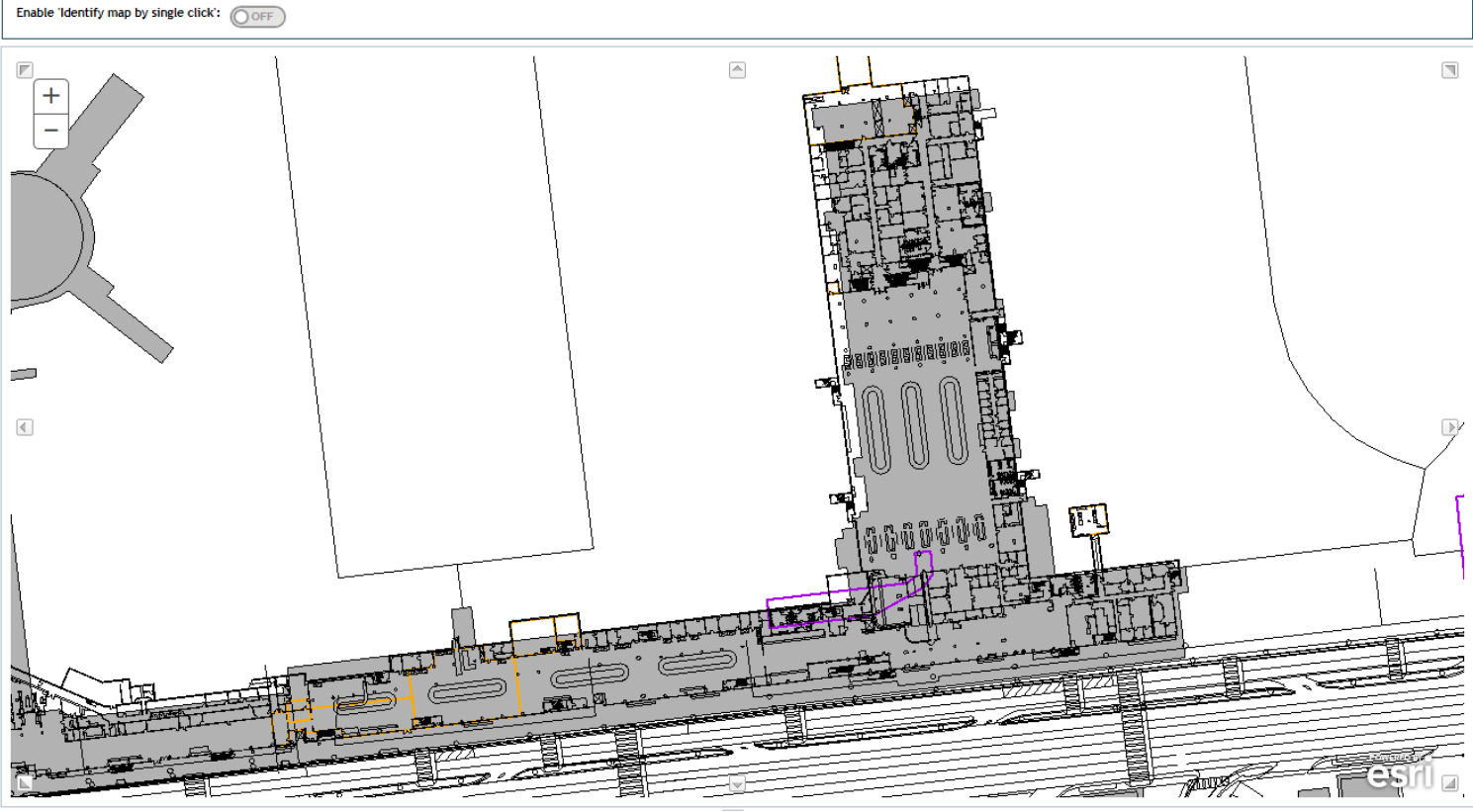
- Completed Projects
- Projects In Construction
- Projects In Design
- Projects In Planning
- Projects On Hold
- Withdrawn Projects

Level:

Date Range: From: To:

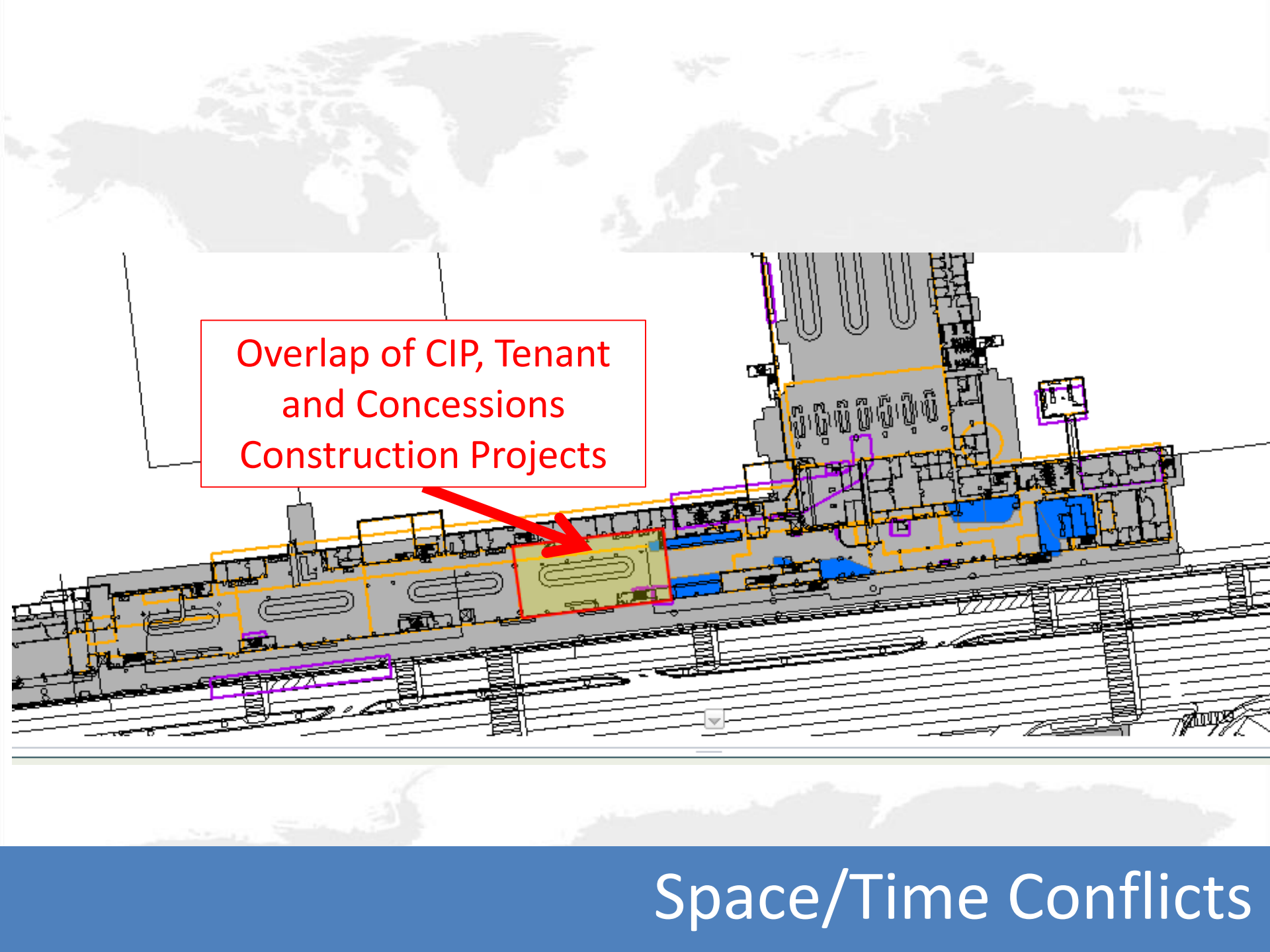
1

2



Terminals LAWA CIP												Terminals Tenant	Terminals FMG	Terminals Concessions
Action	Name	Construction Start Date	Construction End Date	Project Number	ASR Number	Status	Operator	Contractor	Contact	Facility	Level (Floor)	Element		
Zoom to Map	T6 Electrical Infrastructure Upgrades, Including e GSE	2015-4-30	2017-1-6	C-LAX-11687	no asr	In Construction	LAWA	Swinerton Builders		Terminal 6	L1	Termi		
Zoom to Map	Electrical Upgrades - D WP Vault 1585	2015-3-23	2017-5-9	C-LAX-11654	no asr	In Construction	LAWA	Turner Construction		Terminal 2	L1	Termi		
Zoom to Map	T3 Restroom Enhancements	2015-5-10	2016-6-22	C-LAX-11780	no asr	In Design	LAWA	Unknown		Terminal 3	L1	Termi		

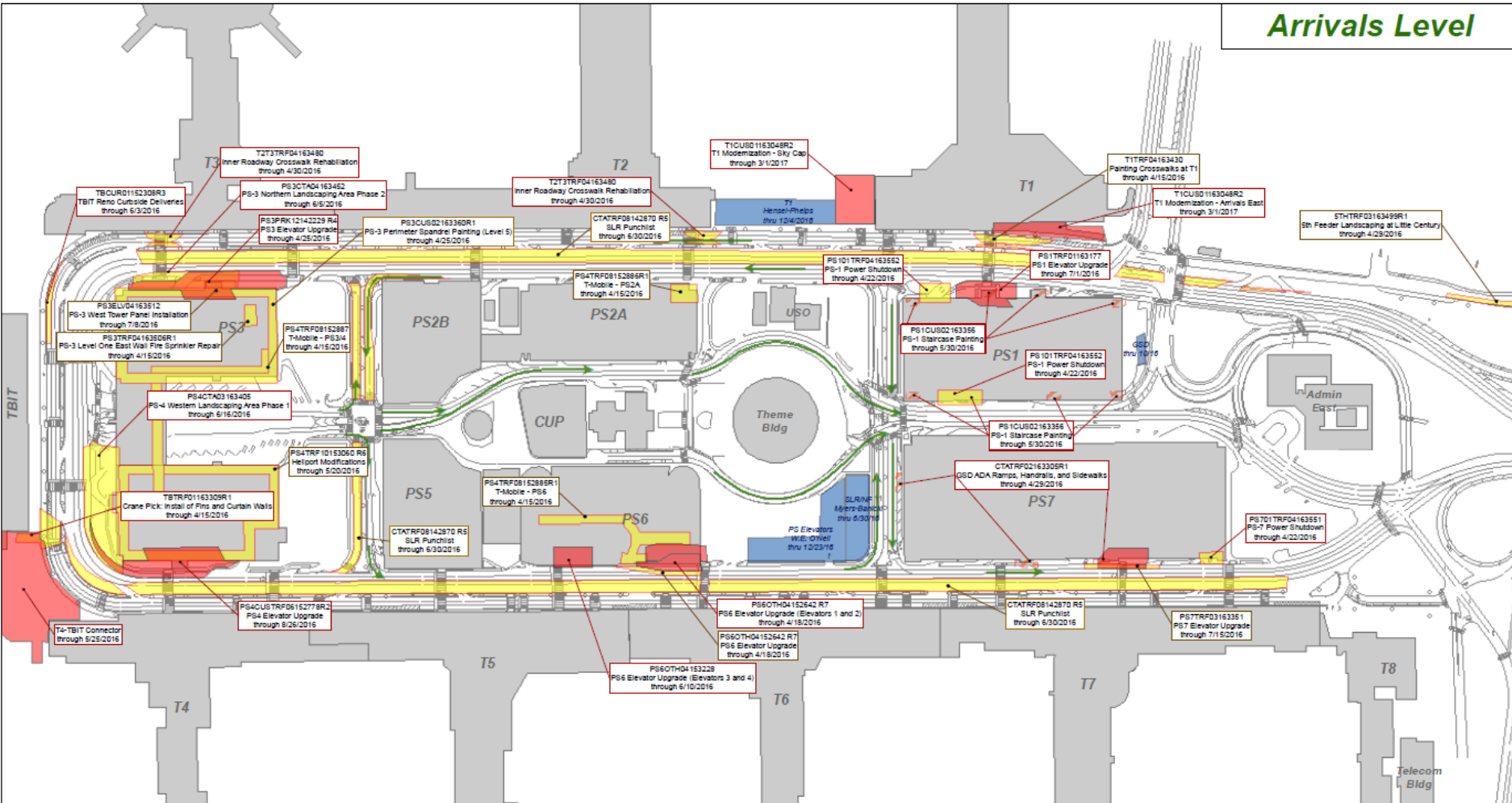
Filtering Functionality

The image shows a detailed architectural floor plan of a building, likely an airport terminal, with various rooms and corridors. A red box highlights a specific area in the center, and a red arrow points to it from a text box. Other areas are highlighted in yellow, purple, and blue. The background features a faint world map.

Overlap of CIP, Tenant
and Concessions
Construction Projects

Space/Time Conflicts

Arrivals Level



- Continuous Construction Closure
 - Intermittent/Nightly Lane Closure/Restriction
 - Foot Traffic Closure
 - Construction Laydown Area
 - Traffic Flow Direction
- ADA - Americans with Disabilities Act
 AOA - Aircraft Operating Area
 ASR - Area Shutdown Request
 CTA - Central Terminal Area
 CUP - Central Utility Plant
 LP LR BR - Light Pole/Light Ribbon/Barrier Replacement
 PS - Parking Structure
 SLR/NF - Second-Level Roadway/New Face
 TBIT - Tom Bradley International Terminal

Potential ASR Impacts in the CTA

Week of 4/14 - 4/20

Prepared on 4/12/2016

V:\GIS\CALMMX\Regular Deliverables\Weekly\Traffic Impacts Lower.mxd - 4/12/2016

Roadway Coordination Map



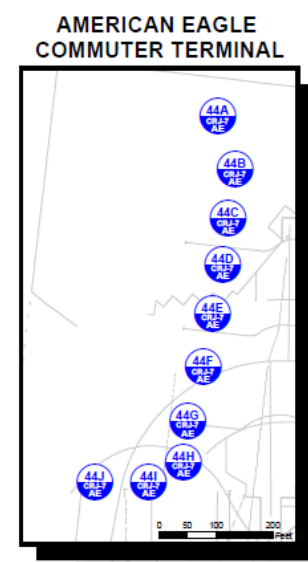
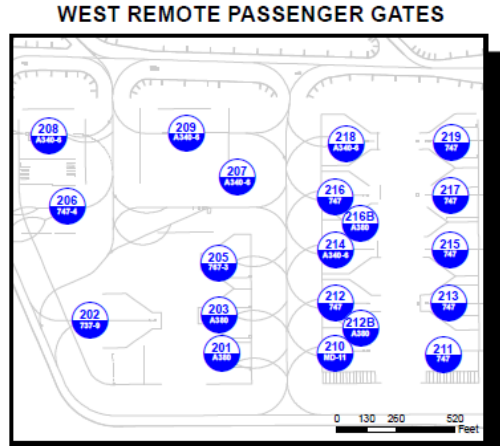
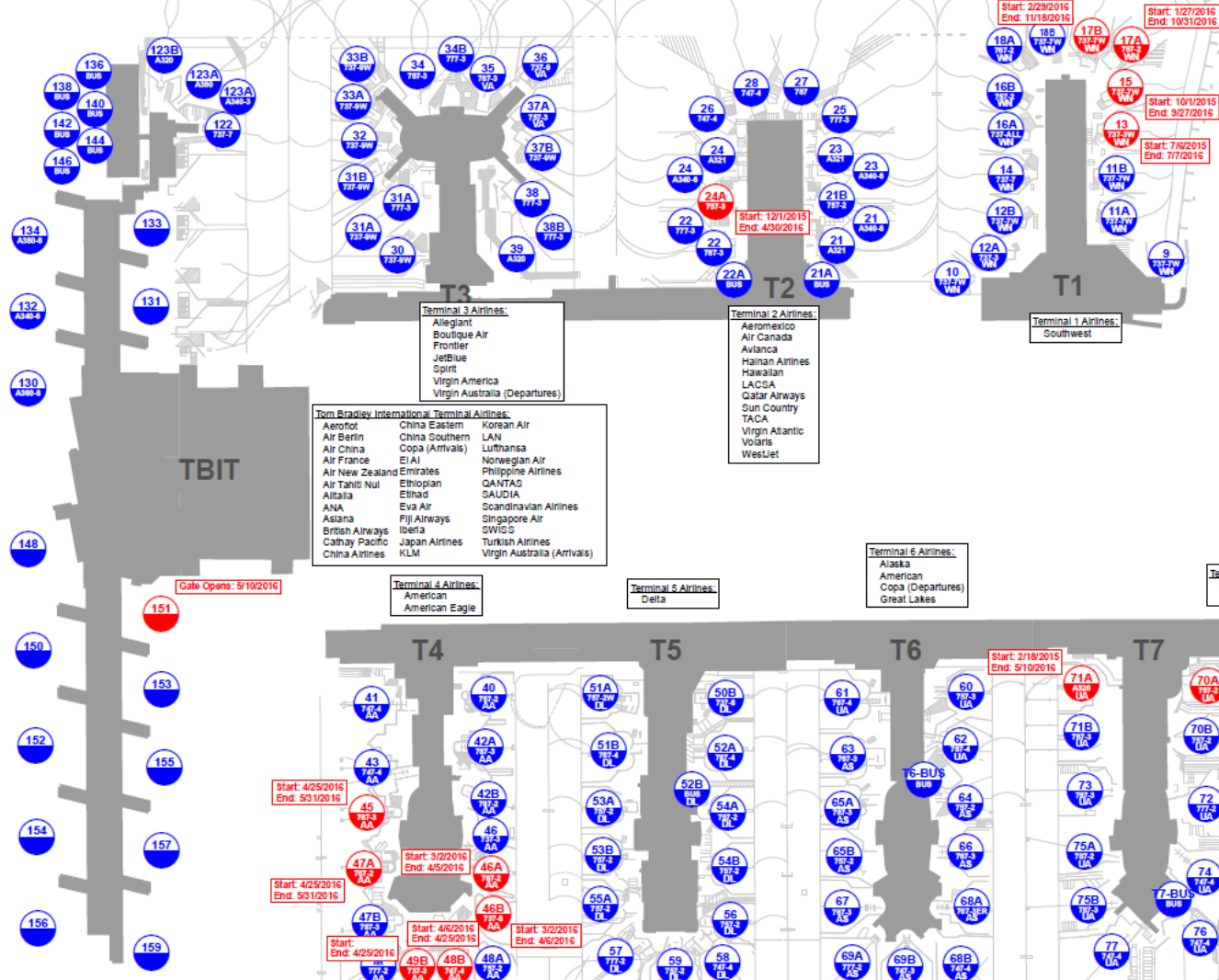
- Capital
- Trailers
- Service Road
- Terminal
- Parking
- Service Road - Restricted
- Miscellaneous
- Ponds
- Service Road - Temporary Closing
- Capital - Continental City
- Available
- Unavailable

Construction Staging Laydown Areas
April 2016 Working Set

CONFIDENTIAL DRAFT FOR DELIBERATIVE PURPOSES ONLY



Construction Staging Laydown Map



Open
 Closed
 Not In Service

Gate Number
 Maximum Fleet Size
 Airline Code

Airline Codes
 AA - American Airlines
 AE - American Eagle
 AS - Alaska Airlines
 DL - Delta Airlines
 UA - United Airlines
 US - US Airways
 WN - Southwest Airlines

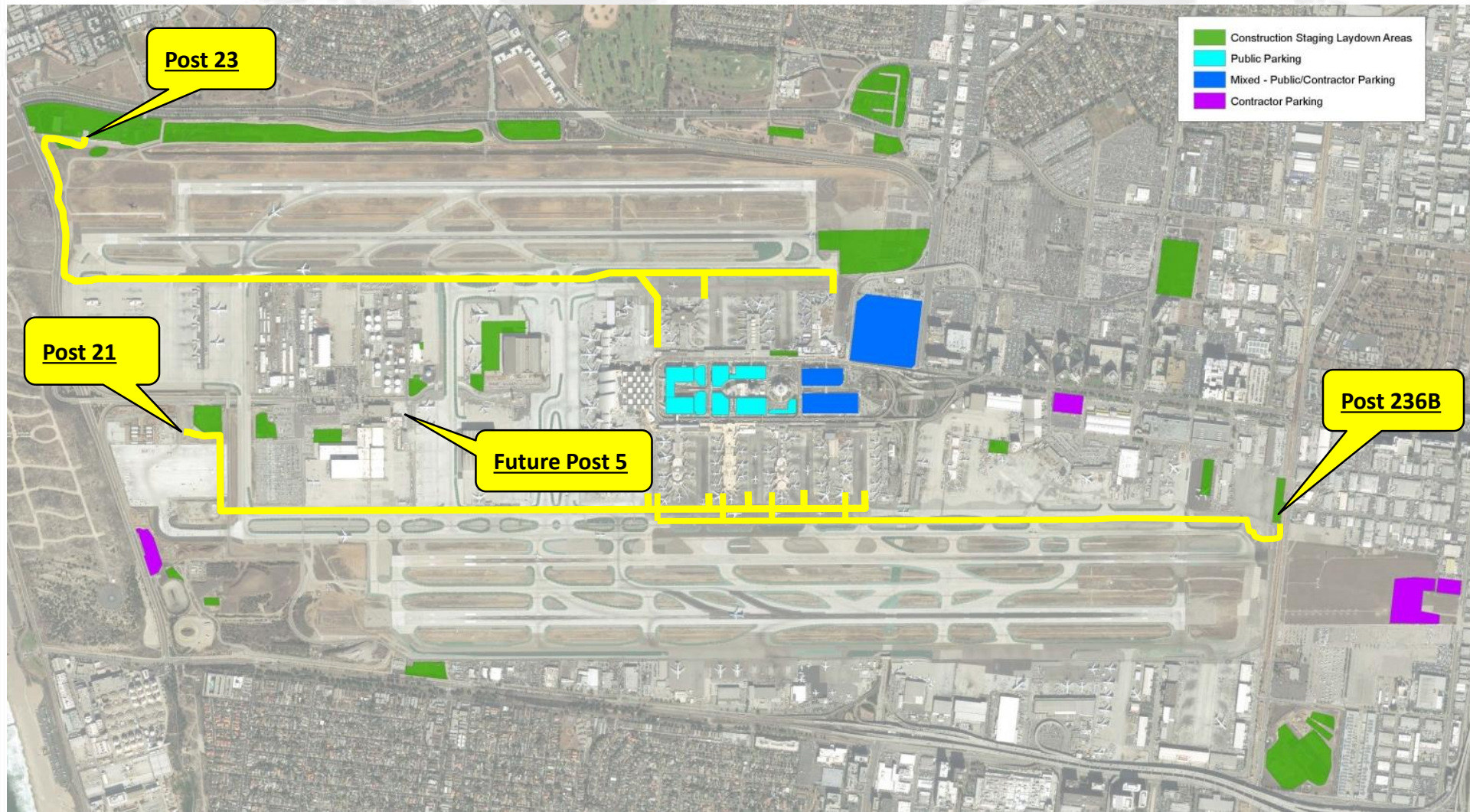
TERMINAL GATE CLOSURE MATRIX April 2016

0 125 250 500 750 1,000 Feet

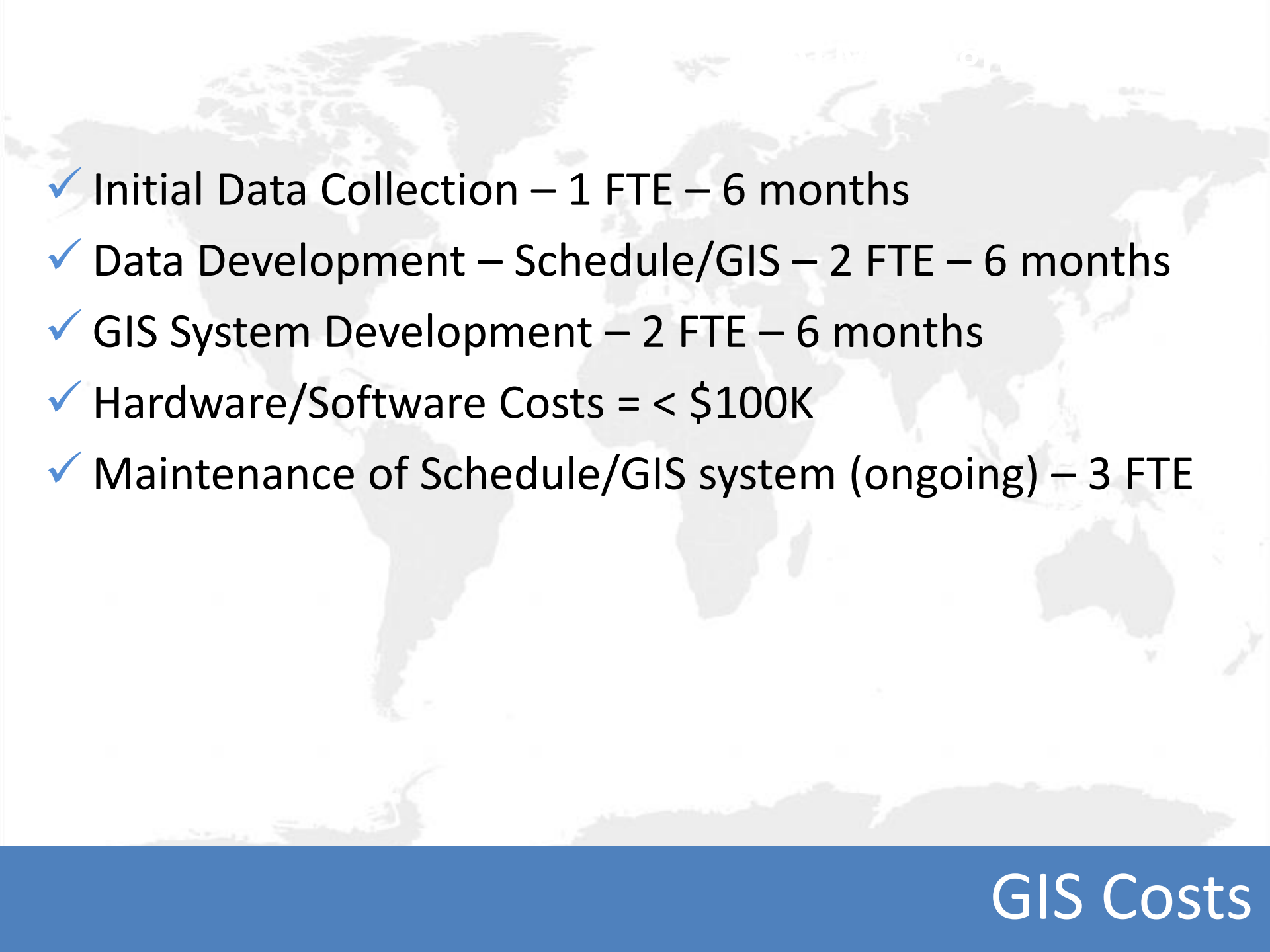


Document Path: V:\GIS\CALM\MXD\Regular_Deliverables\Monthly\Gate_Closures\Gate_Work_Map.mxd

Passenger Gate Closure Map

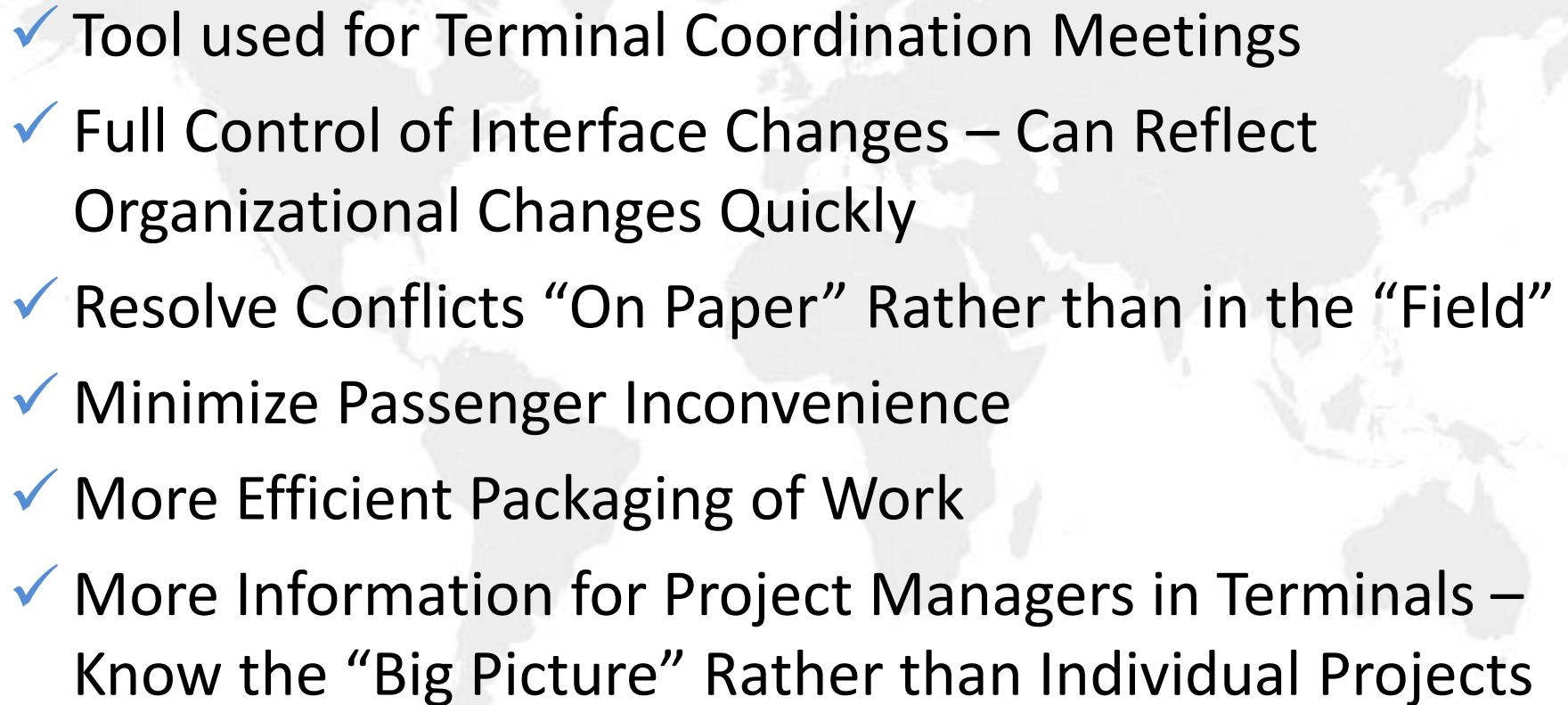


AOA Access Map

- 
- A faint, light gray world map is visible in the background of the slide, showing the continents and oceans.
- ✓ Initial Data Collection – 1 FTE – 6 months
 - ✓ Data Development – Schedule/GIS – 2 FTE – 6 months
 - ✓ GIS System Development – 2 FTE – 6 months
 - ✓ Hardware/Software Costs = < \$100K
 - ✓ Maintenance of Schedule/GIS system (ongoing) – 3 FTE

- 
- A faint, light gray world map is visible in the background of the slide, centered behind the text.
- ✓ Confirm with Project Managers on a monthly basis – project status
 - ✓ Cross-reference with Program Controls on budget/cost reports
 - ✓ Conduct Quarterly Data Scrubs with:
 - ✓ Planning
 - ✓ Project Managers
 - ✓ CALM Team
 - ✓ Attend weekly project OAC and status meetings for latest information

GIS Data Verification Process

- 
- A faint, light gray world map is visible in the background of the slide, centered behind the text.
- ✓ Tool used for Terminal Coordination Meetings
 - ✓ Full Control of Interface Changes – Can Reflect Organizational Changes Quickly
 - ✓ Resolve Conflicts “On Paper” Rather than in the “Field”
 - ✓ Minimize Passenger Inconvenience
 - ✓ More Efficient Packaging of Work
 - ✓ More Information for Project Managers in Terminals – Know the “Big Picture” Rather than Individual Projects



Questions

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Los Angeles World Airports
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